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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/830,748A

DATE: 08/22/2002

TIME: 16:43:02

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Output Set: N:\CRF3\08222002\I830748A.raw

ENTERED

CC49

3 <110> APPLICANT: The Government of the United States of America, as represented by The
 4 Secretary of the Department of Health and Human Services
 5 Kashmiri, Syed V.S.
 6 Padlan, Eduardo A.
 7 Jeffery, Schlom
 9 <120> TITLE OF INVENTION: VARIANTS OF HUMANIZED ANTI-CARCINOMA MONOCLONAL ANTIBODY

11 <130> FILE REFERENCE: 4239-61725
 13 <140> CURRENT APPLICATION NUMBER: US 09/830,748A
 14 <141> CURRENT FILING DATE: 2001-04-30
 16 <150> PRIOR APPLICATION NUMBER: PCT/ US99/25552
 17 <151> PRIOR FILING DATE: 1999-10-29
 19 <150> PRIOR APPLICATION NUMBER: US 60/106,757
 20 <151> PRIOR FILING DATE: 1998-11-02
 22 <150> PRIOR APPLICATION NUMBER: US 60/106,534
 23 <151> PRIOR FILING DATE: 1998-10-31
 25 <160> NUMBER OF SEQ ID NOS: 44
 27 <170> SOFTWARE: PatentIn version 3.1
 29 <210> SEQ ID NO: 1
 30 <211> LENGTH: 17
 31 <212> TYPE: PRT
 32 <213> ORGANISM: Mus musculus
 34 <400> SEQUENCE: 1
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 37 1 5 10 15
 40 Ala
 44 <210> SEQ ID NO: 2
 45 <211> LENGTH: 7
 46 <212> TYPE: PRT
 47 <213> ORGANISM: Mus musculus
 49 <400> SEQUENCE: 2
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 52 1 5
 55 <210> SEQ ID NO: 3
 56 <211> LENGTH: 9
 57 <212> TYPE: PRT
 58 <213> ORGANISM: Mus musculus
 60 <400> SEQUENCE: 3
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 63 1 5
 66 <210> SEQ ID NO: 4
 67 <211> LENGTH: 5
 68 <212> TYPE: PRT
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71 <400> SEQUENCE: 4
73 Asp His Ala Ile His
74 1 5
77 <210> SEQ ID NO: 5
78 <211> LENGTH: 17
79 <212> TYPE: PRT
80 <213> ORGANISM: Mus musculus
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84 Tyr Phe Ser Pro Gly Asn Asp Asp Phe Lys Tyr Asn Glu Arg Phe Lys
85 1 5 10 15
88 Gly
92 <210> SEQ ID NO: 6
93 <211> LENGTH: 6
94 <212> TYPE: PRT
95 <213> ORGANISM: Mus musculus
97 <400> SEQUENCE: 6
99 Ser Leu Asn Met Ala Tyr
100 1 5
103 <210> SEQ ID NO: 7
104 <211> LENGTH: 17
105 <212> TYPE: PRT
106 <213> ORGANISM: Homo sapiens
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110 Lys Ser Ser Gln Ser Val Leu Tyr Ser Ser Asn Ser Lys Asn Tyr Leu
111 1 5 10 15
114 Ala
118 <210> SEQ ID NO: 8
119 <211> LENGTH: 7
120 <212> TYPE: PRT
121 <213> ORGANISM: Homo sapiens
123 <400> SEQUENCE: 8
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126 1 5
129 <210> SEQ ID NO: 9
130 <211> LENGTH: 9
131 <212> TYPE: PRT
132 <213> ORGANISM: Homo sapiens
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136 Gln Gln Tyr Tyr Ser Thr Pro Tyr Ser
137 1 5
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141 <211> LENGTH: 5
142 <212> TYPE: PRT
143 <213> ORGANISM: Homo sapiens
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148 1 5
151 <210> SEQ ID NO: 11
152 <211> LENGTH: 17

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153 <212> TYPE: PRT

154 <213> ORGANISM: Homo sapiens

156 <400> SEQUENCE: 11

158 Trp Ile Asn Ala Gly Asn Gly Asn Thr Lys Asn Ser Gln Lys Phe Gln

159 1 5 10 15

162 Gly

166 <210> SEQ ID NO: 12

167 <211> LENGTH: 12

168 <212> TYPE: PRT

169 <213> ORGANISM: Homo sapiens

171 <400> SEQUENCE: 12

173 Gly Gly Tyr Tyr Gly Ser Gly Ser Gly Ser Asn Tyr

174 1 5 10

177 <210> SEQ ID NO: 13

178 <211> LENGTH: 113

179 <212> TYPE: PRT

180 <213> ORGANISM: Artificial Sequence

182 <220> FEATURE:

183 <223> OTHER INFORMATION: Mouse and Human Chimeric Antibody Light Chain Variable

Region

185 <400> SEQUENCE: 13

187 Asp Ile Val Met Ser Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly

188 1 5 10 15

191 Glu Arg Val Thr Leu Asn Cys Lys Ser Ser Gln Ser Leu Leu Tyr Ser

192 20 25 30

195 Gly Asn Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln

196 35 40 45

199 Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Ala Arg Glu Ser Gly Val

200 50 55 60

203 Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr

204 65 70 75 80

207 Ile Ser Ser Val Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Gln Gln

208 85 90 95

211 Tyr Tyr Ser Tyr Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu

212 100 105 110

215 Lys

219 <210> SEQ ID NO: 14

220 <211> LENGTH: 115

221 <212> TYPE: PRT

222 <213> ORGANISM: Artificial Sequence

224 <220> FEATURE:

225 <223> OTHER INFORMATION: Mouse and Human Chimeric Antibody Heavy Chain Variable

Region

227 <400> SEQUENCE: 14

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230 1 5 10 15

233 Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp His

234 20 25 30

237 Ala Ile His Trp Val Lys Gln Asn Pro Gly Gln Arg Leu Glu Trp Ile

238 35 40 45

241 Gly Tyr Phe Ser Pro Gly Asn Asp Asp Phe Lys Tyr Asn Glu Arg Phe

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242      50      55      60
245 Lys Gly Lys Ala Thr Leu Thr Ala Asp Thr Ser Ala Ser Thr Ala Tyr
246 65      70      75      80
249 Val Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Phe Cys
250      85      90      95
253 Thr Arg Ser Leu Asn Met Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
254      100      105      110
257 Val Ser Ser
258      115
261 <210> SEQ ID NO: 15
262 <211> LENGTH: 124
263 <212> TYPE: DNA
264 <213> ORGANISM: Artificial Sequence
266 <220> FEATURE:
267 <223> OTHER INFORMATION: VH Oligonucleotide Primer
269 <400> SEQUENCE: 15
270 ctaagcttcc accatggagt ggtcctgggt ctctctcttc ctctgctgc tgtgggtgag      60
272 agtgcactcc caggtccagc tgggtcagtc cggcgctgag tccttgccg tgtcccagg      120
274 cgtg      124
277 <210> SEQ ID NO: 16
278 <211> LENGTH: 123
279 <212> TYPE: DNA
280 <213> ORGANISM: Artificial Sequence
282 <220> FEATURE:
283 <223> OTHER INFORMATION: VH Oligonucleotide Primer
285 <400> SEQUENCE: 16
286 ggagagaaat atccaatcca ctccaggcgc tgtccaggat tctgtttctt ctgatttccg      60
288 ctatagagag tgaaggtgta gccgcttgcc ttgcaggaaa tcttcacgcc cagggacacg      120
290 gcc      123
293 <210> SEQ ID NO: 17
294 <211> LENGTH: 126
295 <212> TYPE: DNA
296 <213> ORGANISM: Artificial Sequence
298 <220> FEATURE:
299 <223> OTHER INFORMATION: VH Oligonucleotide Primer
301 <400> SEQUENCE: 17
302 tggagtggat tggatatttc tctcccggaa acgatgattt taagtacaat gagaggttca      60
304 agggcaaggc cacactgact gcagacacat ctgccagcac tgcctacgtg gagctctcca      120
306 gcctga      126
309 <210> SEQ ID NO: 18
310 <211> LENGTH: 125
311 <212> TYPE: DNA
312 <213> ORGANISM: Artificial Sequence
314 <220> FEATURE:
315 <223> OTHER INFORMATION: VH Oligonucleotide Primer
317 <400> SEQUENCE: 18
318 atgggcccgt agttttggcg ctggagacgg tgaccagggt tccctgtccc cagtaggcca      60
320 tattcaggga tcttgtgcag aagtacactg cagtatcctc ggatctcagg ctggagagct      120
322 ccacg      125

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325 <210> SEQ ID NO: 19
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327 <212> TYPE: DNA
328 <213> ORGANISM: Artificial Sequence
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331 <223> OTHER INFORMATION: VL Oligonucleotide Primer
333 <400> SEQUENCE: 19
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336 cggcacatgc ggcgacatcg tgatgagcca gtctccagac tccctggccg tgtcccaggg      120
338 cg                                                                    122
341 <210> SEQ ID NO: 20
342 <211> LENGTH: 121
343 <212> TYPE: DNA
344 <213> ORGANISM: Artificial Sequence
346 <220> FEATURE:
347 <223> OTHER INFORMATION: VL Oligonucleotide Primer
349 <400> SEQUENCE: 20
350 gggctctgcc ctggtttctg ctgataccag gcgagatagt tcttctgatt tccgctatag      60
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354 g                                                                    121
357 <210> SEQ ID NO: 21
358 <211> LENGTH: 121
359 <212> TYPE: DNA
360 <213> ORGANISM: Artificial Sequence
362 <220> FEATURE:
363 <223> OTHER INFORMATION: VL Oligonucleotide Primer
365 <400> SEQUENCE: 21
366 gcagaaacca gggcagagcc ctaaactgct gatttactgg gcatccgcta gggaatccgg      60
368 cgtgcctgat cgcttcagcg gcagcggatc tgggacagac ttcactctga caatcagcag      120
370 c                                                                    121
373 <210> SEQ ID NO: 22
374 <211> LENGTH: 126
375 <212> TYPE: DNA
376 <213> ORGANISM: Artificial Sequence
378 <220> FEATURE:
379 <223> OTHER INFORMATION: VL Oligonucleotide Primer
381 <400> SEQUENCE: 22
382 agccgcggcc cgtttcagtt ccagcttggg gccagcgccg aatgtgaggg gatagctata      60
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386 gaagtc                                                                    126
389 <210> SEQ ID NO: 23
390 <211> LENGTH: 19
391 <212> TYPE: DNA
392 <213> ORGANISM: Artificial Sequence
394 <220> FEATURE:
395 <223> OTHER INFORMATION: Oligonucleotide Primer
397 <400> SEQUENCE: 23
398 ctaagcttcc accatggag                                                                    19
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VERIFICATION SUMMARY

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